Contents, volume 2, numbers 1–6

Number 1 · 90

Referees 1989		1
M. Vidgren, P. Paronen, P. Vidgren, P. Vainio and J. Nuutinen	*In vivo* evaluation of the new multiple dose powder inhaler and the Rotahaler using the gamma scintigraphy	3
G. Alderborn and M. Glazer	Studies on direct compression of tablets XVIII. Surface areas and particle size distribution of compressed sodium chloride	11
L. Niemi, L. Turakka, P. Kahela and E. Kristoffersson	The influence of ageing on the release of hydrocortisone from o/w creams	21
G. Damgård Nielsen, E. Sonnich Thomsen and Y. Alarie	Sensory irritant receptor compartment properties Equipotent vapour concentrations related to saturated vapour concentrations, octanol-water, and octanol-gas partition coefficients	31
J. Gynther, H. Konschin, H. Tylli and J. Rouvinen	Electrostatic requirements for high benzodiazepine receptor affinity among betacarboline-3-carboxylic acid derivatives	45
T. Högberg, P. Ström, H. Hall, C. Köhler, C. Halldin and L. Farde	Syntheses of [^{123}I], [^{125}I]- and unlabelled (S)-3-iodo-5,6-dimethoxy-N-[(1-ethyl-2-pyrrolidinyl)methyl]salicylamide (NCQ 298), selective ligands for the study of dopamine D-2 receptors	53
B. Muan	The organophosphorus insecticide malathion	61
B.-M. Eriksson	Assay of catecholamines and related compounds in biological samples with emphasis on liquid chromatography and electrochemical detection	62
M. Hagos	Phytochemical and pharmacological investigations of *Acacia tortilis*, a Somalian medicinal plant used to treat asthma	63
M. Sunzel	Potential time dependencies in the pharmacokinetics and pharmacodynamics of the benzodiazepine midazolam	64

Number 2 · 90

S. Kimura, T. Nishiyama, T. Imai and M. Otagiri	Improved dissolution and absorption of drugs using low molecular gelatin	65
D.-P. Wang, Y.-H. Tu, L. V. Allen Jr. and F.-C. Cheng	Degradation mechanism of nefopam in solution under stressed storage conditions	73

L. L. Christrup, H. R. Angelo, J. Bonde, F. Kristensen and S. N. Rasmussen	Relative bioavailability of methadone hydrochloride administered in chewing gum and tablets	83
L. Sjödin and U. Svensson	Vasodepressor activity of pharmaceutical formulations of heparin	89
J. Höjer, S. Baehrendtz, A. Forsström, T. Lundqvist and B. Jansson	The stability of flumazenil in infusion solution	101
S. Gizurarson	Animal models for intranasal drug delivery studies	105
N. Bodor and T. Loftsson	The effect of phosphine oxides on transdermal delivery	123
E. Nikolaidis	Immunotoxicity of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin and related polychlorinated aromatic hydrocarbons in birds	127
S.-E. Hillver	Fluorine substituted derivatives of the selective 5-HT_{1A}-receptor agonist 8-OH-DPAT synthetic and spectroscopic studies	128

Number 3 · 90

L. Dalgaard	Racemates and enantiomers in drug research and development – Introductory remarks	131
B. Testa	Mechanisms of chiral recognition in pharmacology The Easson-Stedman model revisited	137
M. Simonyi	Chiral recognition by central benzodiazepine receptors	145
S. D. Rychnovsky	Stereoselective synthesis and the polyene macrolide antibiotics	155
S. Allenmark	Chromatographic methods for optical purity determination of drugs	161
D. T. Wong, R. W. Fuller and D. W. Robertson	Fluoxetine and its two enantiomers as selective serotonin uptake inhibitors	171
A. Mehlsen Sørensen	Requirements of the quality of chiral drug substances	181
J. J. Hansen, B. Nielsen, A. Reinhardt and P. Krogsgaard-Larsen	Excitatory amino acid receptor agonists. Enantiomeric resolutions by use of enzymes and chiral HPLC	185
G. T. Tucker	Enantiomer-specific pharmacokinetics	193
J. M. Mayer	Stereoselective metabolism of antiinflammatory 2-arylpropionates	197
D. B. Campbell	The development of chiral drugs	217
B. Jensen	Crystallographic assignments of absolute configuration	227

Number 4 · 90

D. V. Parke — Drug metabolism in the design and safety evaluation of new drugs 231

P. O. Roksvaag, E. Hviding, G. Smistad and T. Waaler — The counting error of conductometric and light blockage counters monitoring particulate contamination in soft polyvinyl chloride infusion fluid bags 249

P. O. Roksvaag, G. Smistad and T. Waaler — A multipoint calibration technique for high resolution conductometric counters 257

P. O. Roksvaag, G. Smistad and T. Waaler — Fitting mathematical models to size distributions obtained by a high resolution conductometric counter from soft polyvinyl chloride infusion fluid bags 261

H. Dahlbäck — Liver mitochondrial cytochrome P-450 in bile acid biosynthesis and vitamin D_3 metabolism 270

Symposium on Characterization of Macromolecules used as Pharmaceutical Excipients 271

Number 5 · 90

T. Loftsson, B. J. Ólafsdóttir and H. Fridriksdóttir — Comparative study on inclusion complexation of acetylsalicylic acid, cholecalciferol and melphalan with β- and γ-cyclodextrin and some of their derivatives 303

M. Kneczke, C. Rahm, L. Landersjö and P. Lundgren — The influence of salicylic acid on the *in vitro* release of anthralin from an o/w cream 313

P. O. Roksvaag, P. Rydstrøm, G. Smistad and T. Waaler — The mechanism of particulate contamination in soft polyvinyl chloride infusion fluid bags 319

P. O. Roksvaag, G. Smistad and T. Waaler — The covariation of chemical contamination, particulate matter and turbidity in soft polyvinyl chloride infusion fluid bags 327

H. Bundgaard and B. Steffansen — Hydrolysis and rearrangement of phthalamic acid derivatives and assessment of their potential as prodrug forms for amines 333

K. Ingolfsdóttir and P. J. Hylands — Pyrrolizidine alkaloids in *Senecio vulgaris* L. growing in Iceland 343

E. Laine, H. Jalonen, P. Vihervaara and K. Lahtonen — Physicochemical characteristics of atipamezole hydrochloride 349

G. Fyllingen, T. Å. Langvik, P. Hasselgård and P. O. Roksvaag — Racemisation and oxidation in adrenaline injections . 355

S. H. Hansen — Bare Silica
Its use in liquid chromatography with aqueous eluents for pharmaceutical and biomedical analysis with special emphasis on dynamically modified silica 363

S. A. Sande — *In vitro – in vivo* correlation of enteric-coated, repeat action tablets 364

Number 6 · 90

M. Pedersen	Synergic action of clotrimazole and certain anionic surfactants may be due to ion pair formation	367
L. L. Christrup, M. R. Rassing, S. N. Rasmussen and J. Bonde	Relative bioavailability of (±)-verapamil hydrocloride administered in tablets and chewing gum	371
K. Czerwinska, R. B. Sund and E. Søgnen	Drug uptake and disposition in fish: An autoradiographic study with dihydrostreptomycin in the rainbow trout	377
I. H. Hall, R. Simlot, C. B. Oswald, A. R. K. Murthy, H. El-Sourady and J. M. Chapman, Jr	The anti-inflammatory activity of 5*H*-dibenc[c,e]azepine-5,7(6*H*)dione, 6,7-dihydro-5*H*-dibenz[c,e]azepine, N-benzoylbenzamide and 1*H*-benz[d,e]isoquinoline-1,3(2*H*)dione derivatives in rodents	387
S. Miyazaki, H. Yamaguchi, M. Takada, W.-M. Hou, Y. Takeichi and H. Yasubuchi	Pharmaceutical application of biomedical polymers XXIX. Preliminary study on film dosage form prepared from chitosan for oral drug delivery	401
A. Andreani, M. Rambaldi, A. Locatelli, F. Andreani, P. Aresca, R. Bossa and I. Galatulas	Potential antitumor agents XVII (1) Cytotoxic agents from indole derivatives and their intermediates	407
H. Y. Aboul-Enein and R. Islam	Direct HPLC separation of glutethimide enantiomers using a cellulose tricinnamate chiral stationary phase	415
F. O. Ogungbamila and G. Samuelsson	Smooth muscle relaxing flavonoids from *Alchornea cordifolia*	421
Referees 1990		423